

Amendments to the Claims:

Claims 1-19, 22-29 and 31 are pending in this application.

- 1 1. (previously presented) A wireless communication system
2 comprising:
3 a plurality of access points, each access point having at least one
4 omnidirectional antenna forming a substantially uniform coverage area around the
5 access point; and
6 a plurality of subscriber units, each subscriber unit having at least one
7 directional antenna forming a directional coverage area, the directional coverage area
8 selectable from a plurality of directional coverage areas provided by the subscriber
9 unit;
10 whereby each subscriber unit communicates with a particular access
11 point through transmissions between the subscriber unit directional antenna and the
12 omnidirectional antenna for the particular access point.
- 1 2. (original) A wireless communication system as in claim 1 further
2 comprising a routing network interconnecting the plurality of access points.
- 1 3. (original) A wireless communication system as in claim 2 wherein
2 the routing network comprises a distributed network of distribution points.
- 1 4. (original) A wireless communication system as in claim 3 wherein
2 at least one distribution point is in the same location as one access point.
- 1 5. (original) A wireless communication system as in claim 2 wherein
2 at least one access point is in wireless communication with the routing network
3 through at least one backhaul antenna.

1 6. (original) A wireless communication system as in claim 1 wherein
2 transmissions between the subscriber unit and the access point comprise packetized
3 information.

1 7. (original) A wireless communication system as in claim 1 wherein
2 the subscriber unit is a terminal network controller comprising at least one interface,
3 each interface providing access to the wireless communication system.

1 8. (original) A wireless communication system as in claim 7 wherein
2 the terminal network controller further comprises a routing switch routing
3 information packets to and from the at least one interface.

1 9. (original) A wireless communication system as in claim 1 wherein
2 the directional antenna comprises a plurality of antenna patches, the subscriber unit
3 selecting at least one antenna patch as the directional antenna.

1 10. (original) A wireless communication system as in claim 1
2 wherein the directional antenna is operative to be positioned to optimize transmissions
3 between the subscriber unit and the particular access point.

1 11. (original) A wireless communication system as in claim 1 further
2 comprising:
3 a plurality of access points, each access point having at least one
4 directional antenna forming a coverage sector around a portion of the access point;
5 and
6 a plurality of subscriber units, each subscriber unit having at least one
7 omnidirectional antenna forming a substantially uniform coverage area around the
8 subscriber unit, each subscriber unit communicating with a particular access point
9 through transmissions between the subscriber unit omnidirectional antenna and the
10 directional antenna for the particular access point.

1 12. (original) A wireless communication system as in claim 11
2 wherein at least one access point has both at least one omnidirectional antenna and
3 at least one directional antenna.

1 13. (original) A wireless communication system as in claim 11
2 wherein access points transmit from omnidirectional antennas at a first frequency and
3 from directional antennas at a second frequency different than the first frequency.

1 14. (previously presented) A method of wireless communication
2 comprising:
3 transmitting downlink information in a substantially uniform coverage
4 area around each of a plurality of access points
5 receiving the downlink information at a subscriber unit;
6 transmitting uplink information in a focused coverage area from the
7 subscriber unit;
8 receiving the uplink information at one of the access points; and
9 routing information between the plurality of access points by receiving
10 the information in a distribution point and sending the information to an access point
11 in communication with the distribution point if the information is destined for a
12 subscriber unit in communication with the access point, otherwise forwarding the
13 information to another distribution point in communication with the distribution
14 point.

1 15. (original) A method of wireless communication as in claim 14
2 wherein transmitting in the substantially uniform coverage area around each of the
3 access points comprises transmitting from an omnidirectional antenna and receiving
4 the uplink information comprises receiving at the omnidirectional antenna.

1 16. (original) A method of wireless communication as in claim 14
2 wherein transmitting in a focused coverage area comprises transmitting from a
3 directional antenna and receiving the downlink information comprises receiving at the
4 directional antenna.

1 17. (original) A method of wireless communication as in claim 16
2 further comprising selecting at least one of a plurality of antenna patches to form the
3 directional antenna.

1 18. (original) A method of wireless communication as in claim 16
2 further comprising aiming the directional antenna to improve receiving the downlink
3 information.

1 19. (original) A method of wireless communication as in claim 14
2 wherein downlink information and uplink information comprises packetized
3 information.

1 20. (cancelled).

1 21. (cancelled).

1 22. (previously presented) A method of wireless communication as
2 in claim 14 wherein routing information comprises transmitting the information
3 between each access point and one of a plurality of distribution points.

1 23. (original) A method of wireless communication as in claim 22
2 wherein transmitting the information comprises wireless transmission.

1 24. (original) A method of wireless communication as in claim 22
2 wherein at least one access point is in the same location as at least one distribution
3 point.

1 25. (original) A method of wireless communication as in claim 14
2 further comprising routing the downlink information to one of a plurality of interfaces
3 at the subscriber unit.

1 26. (original) A method of wireless communication as in claim 14
2 further comprising:
3 transmitting downlink information in a focused coverage area around
4 each of a plurality of access points
5 receiving the downlink information at a subscriber unit;
6 transmitting uplink information from a substantially uniform coverage
7 area around the subscriber unit; and
8 receiving the uplink information at one of the access points.

1 27. (original) A method of wireless communication as in claim 26
2 wherein at least one access point both transmits downlink information in a focused
3 coverage area and transmits downlink information in a substantially uniform coverage
4 area.

1 28. (original) A method of wireless communication as in claim 26
2 wherein downlink information transmitted in the substantially uniform coverage area
3 is transmitted at a first frequency and downlink information transmitted in the focused
4 coverage area is transmitted at a second frequency different than the first frequency.

1 29. (previously presented) A wireless communication system
2 comprising:

3 a plurality of access points, each access point transmitting and
4 receiving information packets, each information packet transmitted over a
5 substantially uniform coverage area around the access point;
6 a network of distribution points in communication with the access
7 points, the distribution points routing information packets between the access points
8 based upon a forwarding equivalency class for each access point; and
9 a plurality of subscriber units, each subscriber unit transmitting and
10 receiving information packets, each subscriber unit transmitting information packets
11 over a focused directional coverage area.

1 30. (cancelled) .

1 31. (previously presented) A method of communicating comprising:
2 establishing a plurality of access points, each access point having an
3 omnidirectional antenna;
4 establishing a channel between one of the access points and one of a
5 plurality of subscriber units by selecting one of a plurality of antenna directions in the
6 subscriber unit, the selected antenna direction implementing a directional antenna;
7 transmitting information packets in a uniform coverage area around
8 each access point; and
9 receiving information packets at each access point, each received
10 information packet transmitted from the directional antenna.